BOSTON UNIVERSITY GEOMETRY SEMINAR

NOTE: SPECIAL DATE!

BIRATIONAL TRANSFORMATIONS OF GROMOV-WITTEN AND DONALDSON-THOMAS INVARIANTS

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January 27, 2012, 3:00 – 4:00pm
Math/Computer Science, Room B19
111 Cummington Street, Boston

Tea: 2:30pm in Room 144

Abstract:

Motivated by string theory and gauge theory in physics, there are two curve-counting methods in modern enumerative geometry: Gromov-Witten and Donaldson-Thomas invariants. Gromov-Witten invariants count curves via stable maps, while Donaldson-Thomas invariants count curves via stable coherent sheaves. It is a very important topic to study naturality properties of these two invariants, and it is conjectured that Gromov-Witten and Donaldson-Thomas invariants remain unchanged under birational transformations. In this talk we will present our method to prove the conjecture for two crucial types of birational transformations.

See `http://math.bu.edu/research/geom/seminar.html` or contact Takashi Kimura *kimura@math.bu.edu* for more information.